

SUMMARY

The Facility Stabilization mission consists of B-Plant, WBS 1.4.1.1, Project Baseline Summary (PBS) TP01; Waste Encapsulation and Storage Facility (WESF), WBS 1.4.2.1, PBS TP02; Plutonium-Uranium Extraction (PUREX) Facility, WBS 1.4.3.1, PBS TP03; 300 Area/Special Nuclear Materials, WBS 1.4.4.1, PBS TP04; Plutonium Finishing Plant (PFP) Deactivation, WBS 1.4.5.1, PBS TP05; PFP Stabilization, WBS 1.4.5.2, PBS TP06; PFP Vault Management WBS 1.4.5.3, PBS TP07; Transition Project Management, WBS 1.4.6.1, PBS TP12; K Basin Deactivation, WBS 1.4.7.1, PBS TP09; Accelerated Deactivation, WBS 1.4.8.4, PBS TP10; 324/327 Facility Transition, WBS 1.4.10.1, PBS TP08; and Hanford Surplus Facility Program (300 Area Revitalization), WBS 1.4.11.1, PBS TP14, projects.

The B Plant 221-B canyon deactivation activities resumed after an almost two month delay due to high contamination levels. Canyon waste cleanup made good progress with no dose or contamination events. Full schedule recovery is expected. Eighty-two end points were signed off in February, bringing the total number closed to 852 (48 percent) for the project.

Early completion of canyon construction activities associated with Project W-059, "B Plant Safety Ventilation Upgrade," impacted the overall project schedule favorably, placing it one week ahead of schedule. Other deactivation progress includes final isolation of the B Plant steam distribution system and facility sand filter completed seven months ahead of schedule.

Delays in Waste Acid Treatment System (WATS) Phase II and 303K RCRA field activities continue to be experienced due to the recent concerns with beryllium and other hazardous constituents. The results of a recent evaluation have determined that obtaining a Toxic Air Pollutant (TAP) permit is necessary, even though these contaminants exist at very low concentrations. The schedule and cost impact to the project as a result of this delay will be documented through the baseline change control process.

PFP continues to focus on recovery from the May 14, 1997, Room 40 chemical over pressurization incident, the RL Fissile Material Movement Restriction (FMMR) Readiness Assessment on Group I (lab and vault maintenance) operations, and responding to the PHMC internal Facilities Evaluation Board (FEB) evaluation. The PFP Strategic Vision Plan was completed three days ahead of schedule.

Detailed design planning for Project W-460, "Plutonium Stabilization and Handling (PuSH)," continued during February. Update of the conceptual design report estimate is nearing completion, in support of the FY 2000 project revalidation in late April 1998.

Some progress was made with the B Cell project, currently seven months behind schedule. Hot cell work began in February. Air, water, and electricity were relocated to the north window of the cell, in support of fire hazards analysis compliance requirements

for combustible material loading limits. With the initiation of hot cell work, efforts to minimize the schedule impact to the May 1999 Tri-Party Agreement milestone M-89-02, "Complete Removal of Equipment and Mixed Waste from B Cell" are underway.

Fiscal-year-to-date milestone performance (EA, DOE-HQ, FO, and RL) shows that 14 milestones (82 percent) were completed on or ahead of schedule; one (6 percent) was completed late and two (12 percent) are overdue. One FY 1997 milestone is overdue, but is forecasted to be complete by May 31, 1998.

ACCOMPLISHMENTS

- Completed the PFP RL Readiness Assessment; Phase I declared acceptable to restart (planned).
- Completed PFP Strategic Vision Plan three days ahead of schedule (PA FSP8.1.1).
- Completed PRF elevator restoration, enabling removal of cleanup waste from Room 40 on schedule (planned).
- Signed 82 B Plant deactivation endpoints; 852 of 1,776 (48 percent) closed to date (planned).
- Completed final isolation of the steam distribution system and facility sand filter at B Plant seven months ahead of schedule (planned).
- Completed B Plant Preclosure Work Plan on schedule; transmitted to RL (planned).
- Completed milestone TRP-97-602, "Prevent Water Collection in B Plant Canyon Filters" six months ahead of schedule.
- Completed canyon construction activities related to Project W-059, "B Plant Ventilation Upgrade," nine days ahead of schedule (planned).
- Completed physical construction of the WESF Emergency Ion Exchange System on schedule (planned).
- Received all 303K RCRA Closure sampling analyses from off-site laboratories on schedule (planned).
- 327 Legacy Waste Bucket processing commenced on schedule; loaded first concrete-lined drum (planned).

COST PERFORMANCE (\$M):

	BCWP	ACWP	VARIANCE*
Facility Stabilization	\$ 57.0	\$66.4	(\$ 9.5)

* Rounding

The \$9.5 million (17 percent) unfavorable cost variance is primarily attributed to advanced authorization to perform work in support of Defense Nuclear Facility Safety Board (DNFSB) Recommendation 94-1. Baseline change request (BCR) FSP-98-003, which adds this work scope to the FY 1998 baseline, is being revised.

SCHEDULE PERFORMANCE (\$M):

	BCWP	BCWS	VARIANCE
Facility Stabilization	\$ 57.0	\$ 60.3	(\$ 3.3)

The \$3.3 million (5 percent) unfavorable schedule variance is within the established threshold (-7.5 percent.)

ISSUES

- 1) **PFP FMMR:** The self-imposed restriction has been in effect 14 months. Affected activities include cementation of bulk plutonium-bearing materials, thermal stabilization of oxides and Segment #4 duct terminal clean out. Cost and schedule impacts are expected as a result of the work restriction.

Strategy/Status: The ten-day RL Readiness Assessment of Phase I was completed and Phase I was declared acceptable for restart. Six findings and 13 observations were identified. The formal restart plan was submitted on February 27, 1998.

- 2) **Tank 241-Z-361 Unreviewed Safety Question (USQ):** An USQ related to Tank 241-Z-361 was declared. Preliminary estimates to support this activity are \$3.5 million in FY 1998 and \$1.0 million in FY 1999. The FY 1998 MYWP does not include this work scope.

Strategy/Status: The Justification for Continued Operation (JCO) was reviewed. The JCO should be approved in March 1998. Existing controls to permit work on or near the tank will be modified following approval of the JCO. DOE-HQ is requiring an Environmental Assessment for tank venting. A BCR (FSP-98-004R1) adding the necessary funds to initiate resolution of the USQ is pending approval. Input is also

needed from a Clean Air Act perspective to complete the draft Data Quality Objective (DQO). Approval of the DQO is required prior to opening the tank which is now estimated to be delayed between three to six months.

- 3) **Complete Removal of Equipment and Mixed Waste from B Cell (M-89-02):** The B Cell project has slipped seven months behind schedule, jeopardizing completion of Tri-Party Agreement M-89-02, due May 1999. The Fire Hazards Analysis (FHA) presented a different scenario from the 324 Building Safety Analysis Report (SAR). This scenario questioned the probability of a major fire. All work in the hot cell, which could initiate a fire, was stopped until this issue is resolved.

Strategy/Status: Hot cell work resumed when in-cell service lines were relocated to the north window and some material was transported to the airlock to bring the inventory within the limits of the procedure. Although full schedule recovery is not expected, the B Cell projects are being analyzed to identify other methods of accelerating completion of M-89-02.

- 4) **B Cell Grouted Containers:** Manifests for current B Cell grouted containers, historically shipped as contact handled-low level waste (CH-LLW) are being questioned based on curie/gram content and the low level waste/transuranic (LLW/TRU) limits. Inability to ship grouted containers would significantly increase the cost and schedule of this project.

Strategy/Status: The contractors (BWHC and Waste Management Federal Services of Hanford, Inc.) are working to resolve the issue.

COST VARIANCE ANALYSIS

WBS/PBS	COST VARIANCE: (\$ 9.5M)	
PUREX 1.4.3/TP03	Description and Cause: The favorable cost variance (\$0.1M; 15%) is due to lower than planned waste box repackaging costs.	Impact: No overall programmatic impact. Corrective Action: None required. Underruns resulting from efficiencies will be used to offset PFP funding shortage.
300 Area/SNM 1.4.4/TP04	Description and Cause: The favorable cost variance (\$0.2M; 12%) is due to costs not received for completed 303K sampling and analysis work.	Impact: No overall programmatic impact. Corrective Action: Variance will self correct as costs are received.
PFP 1.4.5/TP05, TP06, TP07	Description and Cause: The unfavorable cost variance (\$9.5M; 39%) is due to advanced authorization to perform work to support completion of DNFSB Recommendation 94-1 by May 2002.	Impact: With the exception of \$1.8M, scope and funding have been identified to support DNFSB commitments. Corrective Action: BWHC was authorized to proceed with work scope prior to approval of BCR FSP-98-003.
324/327 Building Transition 1.4.10/TP08	Description and Cause The unfavorable cost variance (\$0.8M; 9%) is due to emergent minimum safe work scope being performed.	Impact: Other work scope will be deferred or deleted to fund this work scope. Corrective Action: BCR FSP-98-011 is in process.
Accelerated Deactivation 1.4.8/TP10	Description and Cause: The unfavorable cost variance (\$0.1M; 9%) is due to contract and multimedia support costs realized sooner than planned.	Impact: No overall programmatic impact. Corrective Action: Variance will self correct when costs realigns with budget.

SCHEDULE VARIANCE ANALYSIS

WBS/PBS	SCHEDULE VARIANCE: (\$ 3.3M)	
B Plant 1.4.1/TP01	Description and Cause: The unfavorable schedule variance (\$1.1M; 10%) is attributed to delays in canyon deactivation and construction of the Low Level Liquid Waste project as a result of redesign efforts to delete Tank TK-150.	Impact: Project completion on schedule has been negatively impacted. Corrective Action: Completion of canyon decontamination activities and acceleration of construction activities will resolve this variance.
WESF 1.4.2/TP02	Description and Cause: The unfavorable schedule variance (\$0.4M; 8%) is due to late approval of the WESF BIO to enable resolution and incorporation of DNFSB comments and resubmittal to RL.	Impact: No overall project impact due to overdue BIO. Corrective Action: BIO was resubmitted. BCR FSP-98-008, which revises the milestone completion date, is pending approval.
324/327 Facility Transition 1.4.10/TP08	Description and Cause: The unfavorable schedule variance (\$1.4M; 12%) is due to delays on B-Cell equipment and 1A rack removal tasks.	Impact: Tri Party Agreement milestone, M-89-02 will not be completed as scheduled. Corrective Action: In cell service lines were relocated to the north window and some material transported to the airlock to allow hot cell work to resume. B Cell activities were resequenced for size reduction and removal of 1B and 2A racks prior to removing 1A rack. All B Cell projects are being analyzed to identify other methods of accelerating completion of M-89-02.

MILESTONE EXCEPTION REPORT

Number/ WBS	Level	Milestone Title	Baseline Date	Forecast Completion Date
----------------	-------	-----------------	---------------	-----------------------------

FORECAST LATE - 0
OVERDUE - 2

TRP-98-710 FO 1.4.2.1		Complete BIO Implementation	01/30/98	07/30/98
	Cause:	Unsolicited comments were received from the DNFSB.		
	Impact:	Resolution of comments (unplanned work scope) delayed approval of BIO. If the BIO is approved by April 30, 1998, implementation will be complete by July 30, 1998. If the BIO is not approved by April 30, 1998, a day-for-day slip will occur for BIO implementation.		
	Corrective Action:	The BIO was resubmitted for approval in January. Assuming BIO approval by April 30, 1998, implementation will be complete by July 30, 1998. A BCR (FSP-98-008) revising the milestone completion date is pending approval.		
TRP-98-901 FO 1.4.10.1		Submit Final PMP/End-points at 324/327	02/28/98	03/31/98
	Cause:	The performance agreement (approved after milestone was established) associated with this milestone includes requirement to incorporate RL comments into final version.		
	Impact:	Incorporation of RL comments delayed completion of the milestone.		
	Corrective Action:	BCR FSP-98-007 revising the milestone completion date is pending approval.		

FY 1997 overdue milestones were dispositioned via the baseline change control process with the exception of one which is forecast completion in May 1998.